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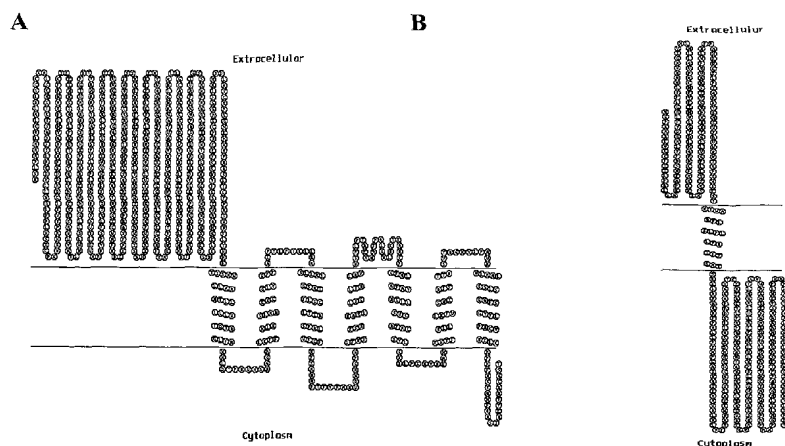
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(54) Title: TASTE RECEPTORS OF THE T1R FAMILY FROM DOMESTIC CAT

A Predicted conformation of the 7TM T1R1 protein sequence from cat.
B Predicted conformation of the cat T1R2 protein sequence.



(57) Abstract: The present invention relates to the discovery of several genes of the domestic cat (*Felis catus*) associated with taste perception. The invention provides, *inter alia*, the nucleotide sequence of the feline *Tasl r1*, *Tasl r2*, and *Tasl r3* receptor genes, the amino acid sequences of the polypeptides encoded thereby, and antibodies to the polypeptides. The present invention also relates to methods for screening for compounds that modify the genes' function or activity, the compounds identified by such screens, and mimetics of the identified compounds. The invention further provides methods for modifying the taste preferences, ingestive responses, or general behavior of a mammal, such as a cat, by administering compounds that affect the function or activity of the gene or the polypeptide encoded thereby.



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